

Climatological Data for October, 1910.
DISTRICT No. 12, COLUMBIA VALLEY.

EDWARD A. BEALS, District Editor.

GENERAL SUMMARY.

Although the rainfall averaged 0.60 inch above normal, and there were some days with high winds, the month on the whole was favorable over the district for nearly every kind of outdoor work. No serious interruption to transportation occurred on land and there were no disasters at sea. The unusually low stage in the Willamette River during the last half of the month prevented regular trips being made by the passenger and freight boats plying between Portland and Albany, and a large amount of coarse freight accumulated at the different landings waiting for the river to rise sufficiently for the boats to reach them. Construction work was delayed but little, and the soil was moistened by the early rains sufficiently to make fall plowing easier than usual. Under the influence of the prevailing mild temperatures fall grain made a good start, and late potatoes did better than expected. No killing frosts occurred in the Willamette Valley and the Sound Country, and no snow fell except high up in the mountains.

TEMPERATURE.

The mean temperature, as determined from the records of 223 stations, was 50.8° , which is 1.6° above the district average. The mean temperatures ranged between 41.8° at San Jacinto, Nev., and 59.9° at Toledo, Oreg. The warmest sections were along the coast and in the bottom lands of the valleys of the Columbia River system, where temperatures averaged 50° and above. The coolest sections were in the extreme eastern portion of this district, where the temperatures ranged below 45° , and reached 42° and below at several stations. In Idaho, excepting in the lower Payette Valley, the temperatures were generally below the normal.

October, 1910, was generally mild throughout, but the highest temperatures occurred quite uniformly during the first decade, while the last decade was cool, the lowest temperatures being recorded generally during the last five days of the month. No damage resulted from the freezing weather of the cool period, however, as vegetation was too far advanced to be injured. The highest recorded temperature was 94° , on the 10th, at Glens Ferry, Idaho, and the lowest was 7° , on the 27th, at Chesterfield, Idaho.

PRECIPITATION.

The average precipitation, as determined from the records of 333 stations, was 2.65 inches, which is 0.60 inch above the normal for this district. Heavy rains fell in nearly all sections during the first four days of the month, and occasional rain occurred over most of the district until the 18th, following which, with the exception of local showers, the weather was generally fair.

The heaviest rainfall occurred in northwestern Washington, and also in a lesser degree in all elevated sections, more particularly over the northern portion of the district, while the least rainfall occurred in the central portion of the Columbia River Valley. The greatest monthly amount was 20.10 inches at Goat Lake, Wash., in the Puget Sound drainage area, and the least was a trace of precipitation at Kennewick, and Trinidad, Wash., and at Mikkalo, Oreg., all in the Columbia River drain-

age area. There was only a moderate snowfall, most of the precipitation, even at high altitudes, occurring as rain. The greatest 24-hour rainfall was 4.57 inches on the 3d, at Goat Lake, Wash., elevation 2,900 feet. Other heavy 24-hour falls, also on the 3d, were: 3.50 inches at South Bend, 3.42 inches at Lake Clealum, 3.35 inches at Detroit, all in Washington; 3.32 inches at Snowshoe, Mont., and 3.16 inches at Deadwood, Oreg.

THE RIVERS.

Owing to the heavy rains on the first few days of the month, the rivers showed a general rise and the mean stages were considerably higher than those for September. In most cases the lowest stages occurred on the 1st of the month.

The Columbia River averaged 0.5 foot below the normal for the month, being 1.8 foot below at Cascade Locks and 0.5 foot below at Vancouver. Compared with the September mean stage the average was 0.7 foot higher.

The Willamette River averaged 0.2 foot below the normal for October, being 0.3 foot below at both Albany and Salem. At Portland the mean stage, 2.9 feet, was 0.1 foot above normal, which stage was no doubt effected by tidewater as the tides were unusually high during the month, in some instances causing the water to flow up-stream for a short time.

The Snake River averaged 0.4 foot below the October normal, being 0.5 foot below at Weiser and 0.3 below at Lewiston. The highest gage reading reported from the Snake River stations was 3.0 feet at Weiser on the 31st and the lowest was 0.4 foot at Riparia on the 1st and 2d.

Government engineers have completed a survey of the upper Willamette from the Clackamas Rapids to the mouth of the Tualatin River. Maps are to be compiled and forwarded to Washington, D. C., in connection with the plan to construct new locks at Oregon City, on the east bank of the stream. Dredges are now at work on the Willamette and, if the weather permits, will soon have the channel cleared from Portland to Salem with a minimum depth of 3 feet at low water. Improvements have also been made in the channel of the Lewis River and the dredges are now ready to undertake the work of cutting through the sand bars in the Clatskanie River.

MISCELLANEOUS.

There was an unusual amount of cloudiness, especially west of the Cascade Mountains. The percentage of possible sunshine was 17 at Seattle, 27 at Portland, and 47 at Spokane.

The prevailing winds were from the southwest. There were several days with high winds at a number of places. The highest wind recorded was 76 miles from the southeast on the 2d at North Head, Wash. Seattle reported 38 miles from the south on the 24th, and Pocatello, Idaho, 36 miles from the southwest on the 4th.

Auroral displays were observed at Grants Pass, Oreg., on the 26th, and at Port Crescent, Wash., and Tatoosh Island, Wash., on the 27th. Thunderstorms were quite general over the district on the 1st, 3d, 14th, and 17th. Solar halos were observed at a number of stations on the 19th, 23d, 25th, 27th, and 28th, and lunar halos were recorded at a few places on the 27th and 28th. There was a great deal of fog during the month, especially near the coast.

TABLE 1.—Climatological data for October, 1910. District No. 12, Columbia Valley.

Stations.	Counties.	Elevation, feet.	Length of record, yrs	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Number of rainy days, .01 inch or more.	Number of clear days.	Number of cloudy days.	Pervailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unsealed.							
<i>Montana.</i>																					
Anaconda.	Deer Lodge.	5,300	9	47.7	.....	81	10	17	27	43	1.31	+ 0.66	0.57	T.	19	7	5	.....	C. D. Demond.	
Bison Mountain.	Powell.	7,240	1																	C. H. Anderson.	
Butte.	Silver Bow.	5,716	15	48.4	+ 3.6	79	10	18	27	47	1.35	+ 0.54	0.45	6.0	8	11	15	5	14	J. R. Wharton.	
Columbia Falls.	Flathead.	3,100	16	43.3	- 0.2	71	15	15	27	41	2.75	+ 1.50	0.0	0.0	5	13	7	11	sw.	Mrs. I. M. Kennedy.	
Como ^{**} .	Ravalli.	2,488	2	48.8		82	9	22	27	36	2.04		0.61	0.0	9	18	3	10	sw.	Hiram Platt.	
Dayton [§] .	Flathead.	2,800	6																Charle Frost.		
East Anaconda [§] .	Deer Lodge.	5,500	5	48.4		80	10	19	27	37	1.26		0.50	T.	6	19	7	5	sw.	C. D. Demond.	
Fortine.	Lincoln.	2,975	4	45.4		75	8	15	26	43	1.44		0.60		8	12	5	14	nw.	Mike Peter.	
Hamilton.	Ravall.	3,575	7	49.0		77	9	20	28	44	1.26		0.56	0.0	4	18	10	3	s.	Bitter Root Valley Ir. Co.	
Hat Creek.	Powell.	6,000	1																M. K. Landreth.		
Kalispell.	Flathead.	2,965	11	47.0	+ 4.5	73	9	19	27	40	1.20	+ 0.12	0.35	0.0	8	13	7	11	w.	U. S. Weather Bureau.	
Lost Creek.	Deer Lodge.	5,200																	Frank Henault.		
McGinnis Meadows.	Lincoln.			44.8		76	8 ^t	10	27	48	2.63		0.79	0.0	9	11	6	14	sw.	H. L. Beebe.	
Missoula.	Missoula.	3,225	32	48.4	+ 3.4	81	9	20	28	44	1.20	+ 0.08	0.38	0.0					sw.	U. S. Weather Bureau.	
Ophir.	Powell.	8,800	1																E. S. Wilton.		
Ovando.	do.	4,207	10	41.9		75	9	15	26	43	1.30	+ 0.78	0.50		8	26 ^a	1 ^a	1 ^a	w.	S. B. Muchmore.	
Philipsburg.	Granite.	5,275		48.0		87	10	15	27	44	0.95		0.19	0.8	8	15 ^a	7 ^b	8 ^b	sw.	G. T. Bramble.	
Plains.	Sanders.	2,475	12	47.4	+ 0.8	80	10	20	27	45 ^a	1.30	+ 0.49	0.80	0.0	4	11	0	20	sw.	M. H. Pierce.	
Pleasant Valley.	Flathead.	3,500	3	46.5		78	15	10	27	54	2.43		0.82	0.0	11	14	9	8	s.	A. D. Stilliman.	
Polson.	do.	2,920	2	49.6		73	6	24	28	30	1.60		0.50	0.0	5				F. P. Brown.		
St. Ignatius.	Missoula.	2,700	4																U. S. Reclamation Service.		
St. Regis.	do.	2,650	2	47.7		84	8	17	26	50	1.49		0.51	0.0	5	2	23	6	ne.	R. D. Lee.	
Saltsees.	do.	3,600	6												5	7	20	0	11	w.	E. K. Tarbox.
Snowshoe.	Lincoln.	4,500	4	42.8		66	8	18	27	55			3.32	4.0	10	13	1	17	w.	J. C. Riter.	
Troy.	do.	1,880	14	47.8	+ 1.5	78	9	14	28	46	4.62	+ 2.62	1.56		11	12	7	13	w.	W. E. Milnor.	
Upper Lake McDonald.	Flathead.	3,200	2	47.4 ^c		74	11 ^t	19	28	37	4.57		1.48		12	7 ^a	5 ^a	12 ^a	s.	F. F. Liebig.	
Willow Glen Stock Farm [§] .	Deer Lodge.		1	46.8		81 ^t	9	14	25	47 ^a	1.22		0.47	T.	5	14	14	3	sw.	G. E. Luce.	
<i>Wyoming.</i>																					
Afton.	Uinta.	6,200	6	43.8	+ 1.8	81	10	10	27	54	1.91	+ 0.43	0.57		6	23	2	6	.....	A. U. Call.
Alta.	do.	7,000	1	42.6		79	10	6	27	46	2.32		0.70		5	18	4	9	sw.	Mrs. Lucy Brown.	
Bedford.	do.	5,900	10	42.4	+ 0.6	92	10	12	27 ^t	50	1.58	+ 0.04	0.54	0.0	4	20	3	8	w.	C. G. Heiner.	
Snake River.	Yellowstone Park.	7,000	4	39.7		72	8 ^t	11	28 ^t	49	1.10		0.60	0.0	3	16	7	8	w.	U. S. Army.	
<i>Nevada.</i>																					
San Jacinto.	Elko.		5	41.8		63	3 ^t	18 ^b	25	45	0.63		0.32	0.0	3	25	3	3	sw.	Moses Jones.	
<i>Utah.</i>																					
Standrod.	Boxelder.		6																T. B. Jones.		
Albion.	Cassia.		9	49.0		87	8	15	27 ^t	55	1.15		0.42	0.0	6	19	6	6	w.	G. A. Axline.	
Almo.	do.		3																Wm. L. Eames.		
American Falls.	Oneida.	4,341																	O. H. Barber.		
Blackfoot.	Bingham.	4,503	15	48.2	+ 2.1	88	10	11	28	53	0.49	- 0.53	0.18	0.0	6	15	16	0	sw.	E. A. Dowd.	
Blackfoot Dam.	do.	2	44.2			80	10	14	28	48	1.58		0.63	0.0	5	19	7	5	sw.	N. W. Irfield.	
Bock's Ranch.	Elmore.	3,500																	William Bock.		
Bogus Creek.	Boise.	4,200																	F. P. Ingram.		
Boise.	Ada.	2,739	25	53.5	+ 3.2	88	8	31	27	41	0.99	- 0.29	0.43	0.0	6	14	12	5	n.	U. S. Weather Bureau.	
Bonners Ferry.	Bonner.	1,850		47.6		74	8	19	27	36	3.09		1.30	0.0	8	9	14	8	sw.	W. H. Heldeman.	
Boulder Mine.	Bolse.	4,800	2																Patrick Moriarty.		
Buhl.	Cassia.	3,800	5																H. J. Idema.		
Burke.	Shoshone.	4,082																	W. Alvin Hall.		
Caldwell.	Canyon.	2,372	6	50.8		87	9	19	29	45	0.40		0.25	0.0	5	19	9	3	w.	Prof. Wm. J. Boone.	
Camas.	Fremont.	4,815	2	49.8 ^c		85	10	13	27	53 ^a									mrs. Edna Faulkner.		
Cambridge.	Washington.	2,651	14			87	11												Chas. H. Shepherd.		
Cedar Creek Dam.	Twin Falls.																		H. R. Collins.		
Chesterfield.	Bannock.	5,424	15	44.3	+ 3.4	85	10	7	27	64	0.83	- 0.05	0.34	0.0	6	14	9	8	sw.	Chas. S. West.	
Coeur d'Alene.	Kootenai.	2,157	20																Jos. T. Scott.		
Cottonwood Creek.	Boise.	4,000																	Frank Hedrick.		
Crawford.	do.	4,300		45.4		80	8 ^t	11	27	58	0.45		0.22	0.0	4	17	4	10	sw.	Mrs. Gertrude Kerby.	
Culdesac.	Nez Perce.	1,520	3	53.2		84	8 ^t	28	30	41	1.87		0.94	0.0	4	18	5	8	sw.	R. R. Richmond.	
Dearly.	Latah.																		H. M. Call.		
Dent.	Nez Perce.	1,350		53.6		81	9 ^t	28	27	39	3.69		1.46	0.0	6	14	8	9	sw.	Emil Schuessler.	
Driggs.	Fremont.	6,097	2	43.0		78	10	13	27	42	1.23		0.89	0.2	4	25	4	12	s.	Walter H. Durrant.	
Edie.	do.		2	42.6		72	10	13	29	39	0.85		0.70	0.0	2	24	3	4	sw.	Geo. B. Edie.	
Edwardsburg.	Idaho.	4,500																	W. A. Edwards.		
Emmett.	Canyon.	2,350	4	51.6		88	9	19	29	51	0.79		0.50	0.0	5	24	1	6	.....	U. S. Forest Service.
Flowers.	Blaine.																		M. B. Merritt.		
Forney.	Lemhi.	13	45.0	+ 2.1		84	11	12	27	48	1.20	+ 0.11	0.60	2.35	4	13	9	9	sw.	Mrs. Gertrude M. Ross.	
Garden Valley.	Boise.	3,600	4																Asa A. Kenison.		
Garnet.	Elmore.	2,575	11	56.9 ^b	+ 1.2	85 ^t	2	25	28	51 ^a	0.90	+ 0.13	0.25	0.0	4	25	2	5	w.	I. E. Perkins.	
Glenns Ferry.	do.	2,569	3	52.9		94	10	16	28	57	0.31		0.11	0.0	4	24	2	5	w.	John Kral, Jr.	
Gooding.	Lincoln.	3,572	2	51.8		91	10			44 ^a	0.45		0.26	0.0	5	18	8	5	w.	Henry Kottkey.	
Grand Forks.	Shoshone.	3,000																	N. G. Massay.		
Grandview.	Owyhee.		2																Joseph M. Clarke.		
Grimes Pass.	Boise.	5,200																	Fred Perry.		
Guffey.	Owyhee.	2,381	2	55.2		90	8 ^t	24	29	46	0.61		0.22	0.0	7	13	4	14	e.	U. S. Forest Service.	
Hailey.	Blaine.	5,347	7	48.1		77	8	22	27	40 ^a	1.18		0.63	0.0	4	24	3	4	sw.	J. M. Waterhouse.	
Hotsping.	Owyhee.	2,752	5	53.4</																	

TABLE 1.—Climatological data for October, 1910. District No. 12—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.				Sky.				Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, .01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	
<i>Idaho—Cont'd.</i>																			
Moscow.	Latah.	2,748	18	49.4	+ 0.6	77	10	20	26	39	2.21	+ 0.55	1.19	0.0	5	9	13	9	se.
Mountainhome.	Elmore.	3,150	5	50.8	.....	89	10	18	28	54	1.06	.....	0.45	0.0	4	20	5	6	Mrs. Ellen Manion.
Murtaugh.	Cassia.	4	43.9	.....	88 ^a	10	18	27	50 ^a	0.48	.....	0.30	0.0	2	21	10	0	w.	
Naz Perce.	Naz Perce.	3,182	2	48.8	.....	76	6 ^t	22	27	43	1.67	.....	0.50	0.0	8	19	0	12	P. Mitchell.
Oakley.	Cassia.	4,700	18	53.5	+ 3.8	90	10	20	19 ^t	56	0.40	- 0.42	0.25	0.0	2	15	15	1	John Adams.
O'Hara Bar.	Idaho.	1,400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. D. Agnew.	
Orofino.	Naz Perce.	1,027	6	52.4	- 2.1	84	1	22	27	45	3.02	.....	0.92	0.0	7	16	10	5	Geo. Alteneder.
Payette.	Canyon.	2,159	20	49.4	.....	85	9 ^t	17	28	48	0.81	- 0.06	0.27	0.0	7	17	9	5	E. F. Allen.
Peaceful Valley.	do.	2,380	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. W. Newton.	
Pebble.	Bannock.	5,277	2	45.3	.....	83	10	11	28	52	1.16	.....	0.55	0.0	5	16	11	4	Mrs. Fannie Say.
Pierson.	Custer.	6,900	39.9	39.9	.....	71	10	10	23 ^t	51	1.36	.....	0.73	0.0	4	22	3	6	David P. Clarke.
Pine.	Elmore.	4,100	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mrs. Jennie Potter.	
Placerville.	Boise.	4,200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	James McDevitt.	
Pleasant Valley.	Ada.	3,000	3	51.7	.....	89	8	23	27	44	1.01	.....	0.33	0.0	5	23	1	7	C. E. Friedrich.
Pocatello.	Bannock.	4,483	11	51.2	+ 3.2	86	10	19	28	47	1.17	+ 0.19	0.36	0.0	10	18	10	3	U. S. Weather Bureau.
Pocatello Nursery.	do.	5,396	3	46.7	.....	82	9	27	50	1.39	.....	0.50	0.0	4	26	2	3	Mrs. Anna M. Wrensted.	
Poplar.	Bingham.	1,865	22	48.4	+ 3.0	72	17	21	28	30	2.50	+ 0.62	1.02	0.0	10	13	7	11	Stanley Bybee.
Porthill.	Bonner.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. A. French.	
Powers Ranch.	Boise.	4,300	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mrs. Mary French.	
Pyle Creek.	do.	3,100	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Walter L. Cole.	
Rattlesnake Creek.	Elmore.	4,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Richard M. Green.	
Richfield.	Lincoln.	.....	49.9	.....	.....	88	10	21	27	48	0.44	.....	0.15	0.0	4	21	9	1	C. H. Fitch.
Roseworth.	Twin Falls.	4,400	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. B. Hartwell.	
Ruby Creek.	Boise.	4,200	4	50.2	.....	87	8 ^t	19	27	53	0.40	.....	0.14	0.0	6	25	2	4	O. A. Hatter.
Rupert.	Lincoln.	4,204	4	50.2	.....	87	8 ^t	19	27	53	0.40	.....	0.14	0.0	6	25	2	4	Will Parry.
St. Maries.	Kootenai.	2,263	14	46.9	.....	89	8	13	28 ^t	58	0.41	.....	0.25	0.0	3	24	4	3	J. S. Turnbull.
Salmon.	Lehman.	4,040	5	51.6	.....	85	8 ^t	22	27	40	0.90	.....	0.45	0.0	6	20	8	5	E. K. Abbott.
Salmon River Dam.	Twin Falls.	3	51.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Arch M. Gilbert.	
Sandpoint.	Bonner.	2,086	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. H. Edgerton.	
Sheep Hill.	Boise.	5,000	3	50.2	.....	90	9	23	27	45	0.59	.....	0.40	0.0	7	22	4	5	Mrs. Verna Paddock.
Shoshone.	Lincoln.	3,968	3	46.4	.....	82	10	19	27	52	0.49	.....	0.37	0.0	7	18	7	6	O. A. Truman.
Silver City.	Owyhee.	6,280	3	47.8	.....	77	8	23	27	34	0.53	.....	0.30	0.0	4	22	9	0	A. D. Bradfield.
Smith Prairie.	Elmore.	5,200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Wm. W. Newell.	
Smith Ranger Station.	Bonner.	1,080	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. D. Crittenden.	
Soldier Creek.	Blaine.	4,420	2	47.2	.....	87	10	19	27	47	0.97	.....	0.87	0.2	2	19	8	4	J. E. Minear.
Springfield.	Bingham.	2,482	.....	.....	.....	87	10	11	28	51	0.12	.....	0.12	0.0	1	19	3	4	Mrs. W. A. Edwards.
Sugar.	Fremont.	4	44.8	.....	82	10	15	27	49	0.93	.....	0.40	0.0	7	15	10	6	Arthur Cutting.	
Sunnyside.	Elmore.	2	51.1	.....	87	8 ^t	19	28	47	0.63	.....	0.23	0.0	7	15	10	6	E. A. Wilmot.	
Tripod Mountain.	Boise.	4,300	2	52.2	.....	91 ^c	10	17	28	53 ^c	0.48	.....	0.37	0.0	7	18	7	6	Mrs. Verna Paddock.
Twin Falls.	Twin Falls.	3,825	6	51.2 ^a	+ 2.8	82	10	19	27	52	0.49	+ 1.51	0.30	0.0	3	21	10	0	J. A. Waters.
Vernon.	Fremont.	13	46.4	.....	82	10	19	27	52	0.49	+ 1.51	0.90	T.	6	18	9	4	A. M. Slattery.	
Wallace.	Shoshone.	2,728	3	47.8	.....	77	8	23	27	34	0.53	.....	2.91	0.0	10	10	8	1	U. S. Weather Bureau.
Wendell.	Lincoln.	3,400	3	52.9	.....	92	10	24	27	49	0.59	.....	0.30	0.0	4	22	9	0	Chas. L. Dingler.
<i>Washington.</i>																			
Aberdeen.	Chehalis.	162	19	52.2	- 0.2	70	15	30	26	38	10.08	+ 3.37	2.70	0.16	16	20	11	w.	Carl S. Weatherwax.
Anacortes.	Skagit.	60	18	51.4	.....	76	18	31	26 ^t	36	3.99	+ 1.51	1.03	0.0	13	10	13	8	Douglas Allmond.
Baker.	do.	200	4	51.3	.....	73	15	30	27	30	11.70	.....	2.28	0.0	15	11	12	18	Robt. M. White.
Bellingham.	Whatcom.	60	15	52.0	+ 1.1	68	8 ^t	30	28	37	4.94	+ 2.50	0.92	0.0	12	5	13	13	Sanford B. Mayhew.
Blaine.	do.	57	13	50.2	+ 2.3	67	17	30	26 ^t	31	6.75	+ 3.39	1.05	0.0	19	5	12	14	U. S. Weather Bureau.
Blalock Island.	Benton.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Blalock Island Garden Co.	
Blewett.	Chelan.	2,200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John Beermeister.	
Bremerton.	Kitsap.	30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	U. S. Navy Yard.	
Brewster.	Okanogan.	1,620	50.9	.....	.....	77	8	25	27	29	0.45	.....	5.96	1.84	0.0	15	15	2	Mrs. H. F. Bertram.
Bumping Lake.	Yakima.	.....	45.2	.....	.....	72	11	19	25	38	5.59	.....	0.28	0.0	3	14	15	2	U. S. Reclamation Service.
Cashmere.	Chelan.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Valley Power Co.	
Cedar River.	King.	535	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	George Landsburg.	
Centralia.	Lewis.	212	17	52.4	+ 0.3	70	15 ^t	27	27	42	5.35	+ 1.89	1.49	0.0	15	9	15	s.	I. S. Turner.
Cheney.	Spokane.	2,351	11	49.2	.....	73	8	28	26 ^t	32	1.54	+ 0.07	1.00	0.0	6	15	1	15	Northern Pacific Ry.
Clealum.	Kittitas.	1,930	11	48.4	+ 1.3	76	11	17	28	33	4.58	+ 0.29	0.96	0.0	7	12	11	s.	J. A. Balmer.
Clearbrook.	Whatcom.	140	7	49.0	.....	65	11 ^t	26	28	34	8.70	.....	1.68	0.0	17	3	17	11	Geo. Gibbs.
Crescent.	Jefferson.	135	14	48.0	+ 0.9	74	9	18	27	34	1.37	+ 0.02	0.98	0.0	4	17	10	4	W. H. James.
Davenport.	Lincoln.	2,300	21	50.6 ^a	+ 1.0	83	10	21	27	50 ^a	2.20	+ 0.08	0.0	0.0	5	12	4	15	W. L. Sax.
Dayton.	do.	1,635	10	48.4	+ 3.2	78	8	11	28	45	0.86	- 0.32	0.42	0.0	5	20	7	4	Wm. Baines.
Detroit.	Mason.	30	2	52.2	.....	65	15	31	23	38	8.91	.....	3.35	0.0	8	18	8	19	W. W. Hendron.
Dixie.	Walla Walla.	5,000	1	.....	.....	76	8	19	27	33	4.58	.....	1.73	T.	8	12	6	13	T. Z. Andrews.
Duckabush.	Jefferson.	330	2	53.0 ^a	.....	75 ^t	19	30 ^t	28	34	0.00	.....	1.55	0.0	14	5 ^a	16	sw.	E. J. Flinch.
East Sound.	San Juan.	500	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Benj. E. Harrison.	
Ellensburg.	Kittitas.	1,571	22	49.8	+ 2.5	80	8	14	27 ^t	44	0.16	- 0.37	0.06	0.0	3	14	8	9	R. Lee Barnes.
Ephrata.	Grant.	1,265	7	59.1	.....	89	15	20	25	42	1.97	- 0.04	1.11	0.0	5	20	10	4	T. J. Cook.
Forks.	Clallam.	480	1	.....	.....	85	8	23	27	41	1.97	.....</td							

TABLE 1.—Climatological data for October, 1910. District No. 12—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmetted.	Number of rainy days, .01 inch or more.	Number of clear days, .01 inch or more.	Number of partly cloudy days.				
Washington—Cont'd.																					
Laurier.	Ferry.		45.2			75	17	16	27	40	1.03		0.26	0.0	7	51	51	11	sw.	Mrs. J. S. Myers.	
Lester.	King.	1,614	6	50.4		74	15	21	26	34	8.98		2.70	T.	13	11	3	17	e.	W. W. Clabaugh.	
Lone Tree.	Chehalis.	14	1	53.0		62	15†	41	26	13	11.37		2.88	0.0	19	1	12	18	nw.	U. S. A. Engineer Corps.	
Longmire Springs.	Pierce.	2,800									4.85		0.82	0.0	17	9	8	14	sw.	U. S. Forest Service.	
Lost Creek.	Okanogan.	3,125	1								0.59		0.18	0.0	5	10	12	9		P. H. Leese.	
Lucerne.	Chelan.	1,100	3																	Mrs. Barbara Shearer.	
Lyle.	Klickitat.	600	17																	Wm. Morganson.	
McCumber's Ranch.	Yakima.	2,182	1																	Mrs. Mary McCumber.	
Merritt.	Chelan.	2,175	3																	H. B. Smith.	
Mottinger.	Benton.	307	10	59.0	+ 2.6	88	8	26	27†	38	0.30	- 0.39	0.17	0.0	2	26	4	1	w.	G. H. Mottinger.	
Mount Pleasant.	Skamania.	650	10	50.2	- 4.1	75	8	34	26	23	4.95	+ 0.63	1.15	0.0	16	8	11	12	w.	F. M. Groul.	
Moxee.	Yakima.	1,000	18	52.5 ^c	+ 2.4	81	8	16	27†	45 ^d	0.13	- 0.40	0.04	0.0	4	9	16	6		Henry B. Scudder.	
Newport.	Stevens.	2,400		47.7		76	8	18	27	37	2.53	+ 0.72	1.01	0.0	9	8	13	10	sw.	Chas. M. Talmadge.	
Nighthawk.	Okanogan.	3,050																	Steve Nagy.		
North Head.	Pacific.	211	8	52.8	- 0.3	68	19	41	26	19	4.05	+ 0.14	1.07	0.0	19	3	20	20	se.	U. S. Weather Bureau.	
Northport.	Stevens.	1,350	11	48.5 ^a		68†	15	22†	27†	33†	1.46		0.80	0.0	4	10 ^e	14 ^e	4 ^e	s.	Forrest B. Phillips.	
North Yakima.	Yakima.	1,070	1	53.6		80	8	23	28	43	0.12		0.05	0.0	4	17	6	8		U. S. Weather Bureau.	
Nutland.	Klickitat.		1	51.0		72	8	25	27†	29	0.22		0.15	0.0	3	10	15	6		J. R. Shepard.	
Odessa.	Lincoln.	1,540	7	51.2		82	9	19	27	40	0.64		0.35	0.0	4	10	9	15	sw.	Wm. U. Neely.	
Olga.	San Juan.	50	20	50.2	+ 0.2	62	15	35	27†	21	4.96	+ 2.36	1.02	0.0	10	7	9	15	s.	Cecil S. Willis.	
Olympia.	Thurston.	200	32	52.4	+ 1.6	69	23	28	28	41	8.07	+ 3.79	2.77	0.0	18	8	4	19		M. O'Connor.	
Omak.	Okanogan.	850	1																	Wm. G. Tait.	
Oroville.	do.	922	1																	A. M. Dufield.	
Peela.	Garfield.	5,000	1																	Samuel Gruell, sr.	
Pomeroy.	do.	1,500	18	54.2	+ 0.6	81	7	26	26†	40	1.20	- 0.12	0.60	0.0	4	12	9	10	w.	Peter McClung.	
Port Crescent.	Clallam.	259	15	47.8	+ 0.4	64	6	29	28	22	4.88	+ 1.41	1.48	0.0	18	0	16	15	s.	U. S. Weather Bureau.	
Port Townsend.	Jefferson.	80	20	51.3	+ 0.7	64	16	35	27†	20	1.89	+ 0.25	0.50	0.0	10	6	2	23	sw.	Frank Plummer.	
Pullman.	Whitman.	2,550	18	51.3	+ 1.7	79	8†	26†	27	36 ^a	2.43	+ 1.01	0.75	0.0	7	18	5	8	sw.	State Agricultural College.	
Quintault.	Chehalis.	300	3																	A. V. Higley.	
Republic.	Ferry.	2,628	10	45.0	+ 1.1	71	15	12	27	38	1.01		0.65	0.0	5	14	4	13	n.	Geo. B. Stocking.	
Rex Creek.	Chelan.	1,135	3																	James W. Nicol.	
Ritzville.	Adams.	1,825	11																	Northern Pacific Ry.	
Rock Lake.	Whitman.	1,910	4	49.0 ^c		76	8	22	27	35 ^c	1.36		0.71	0.0	3	16	1	14	w.	P. M. Ramsey.	
Rosalia.	do.	2,425	18	49.6	+ 1.6	79	9	25	27	33	2.40	+ 0.83	1.10	0.0	8	12	6	13	sw.	Hans Mummu.	
Russells Ranch.	Yakima.	2,870	1																	Maggie M. Russell.	
Scenic Hot Springs.	King.	2,021																			
Seattle.	do.	123	19	52.8	+ 2.0	66	28	36	26	28	4.02	+ 1.14	1.09	0.0	19	2	6	23	s.	U. S. Weather Bureau.	
Sedro-Woolley.	Skagit.	38	13	51.5	- 0.1	72	15	29	28	29	8.43	+ 4.14	2.00	0.0	14	5	9	17	sw.	Mrs. H. L. Devin.	
Sixprong.	Klickitat.	1,240	3	56.2		83	8	26	27	34	0.11		0.08	0.0	3	16	4	11		C. E. Comstock.	
Skagit Power Dam.	Whatcom.																			Saggit Power Co.	
Snohomish.	Snohomish.	100	16	51.8	+ 0.4	70	15†	27	27	39	5.03	+ 1.39	1.40	0.0	18	6	4	21	sw.	Warren Hodges.	
Snoqualmie Falls.	King.	667	11	51.2	+ 0.5	69	15	29	26	28	8.99	+ 3.98	1.88	0.0	20	13	0	18		O. N. Wiswell.	
Snoqualmie Pass.	Kittitas.	3,000																		C. E. Ingraham.	
Snyders Ranch.	Okanogan.	2,200	1																	Geo. M. Snyder.	
South Bend.	Pacific.	16	15	52.8	- 1.5	72	15	31	27	33	11.98	+ 6.03	3.50	0.0	21	7	8	16	w.	Miss Winifred Eichner.	
Spokane.	Spokane.	1,943	29	50.8	+ 3.5	77	8	23	27	30	1.42	- 0.09	0.62	0.0	6	7	8	18	sw.	U. S. Weather Bureau.	
State University.	King.	1	50.4			66	15	32	28	26	4.67		0.96	0.0	19	5	5	21	s.	University of Washington.	
Stokes Ranch.	Okanogan.	2,670	1																	Chas. W. Gunn.	
Tumwater.	do.	2,700																		U. S. Forest Service.	
Summer.	Pierce.	77	2	51.1		67	14	25	27†	38	5.98		1.31	0.0	19	6	1	24	n.	H. E. Thompson.	
Sunnyside.	Yakima.	740	15	53.4	+ 2.6	86	8	13	27	40	0.16	- 0.37	0.12	0.0	2	16	9	6	sw.	U. S. Reclamation Service.	
Tacoma.	do.	213	24	52.6	+ 2.0	66	19	31	26	27	5.22	+ 1.82	1.93	0.0	19	6	5	20	sw.	U. S. Weather Bureau.	
Tatoosh Island.	Clallam.	86	25	51.2	+ 0.3	60	15	43	26	12	8.82	+ 1.17	1.77	0.0	23	5	7	19	ne.	Do.	
Tieton.	Yakima.	2,000	1	48.3		70	8	20	27	29	2.26		0.88	0.0	6	8	16	7	w.	U. S. Reclamation Service.	
Touchet.	Walla Walla.	556	3	54.0		83	8	15	27	44	0.41		0.25	0.0	4	16	6	9	sw.	D. W. Dorrance.	
Trinadad.	Columbia.	2,500	1	54.0																R. H. King.	
Twin Sister Lakes.	Grant.	900	6	55.7		83	8	28	27†	32	T.		0.0	0	0	24	6	1	nw.	J. C. Wheeler.	
Twisp.	Okanogan.	1,350	7																Elias McCrea.		
Tyne.	do.	2,000	1																		
Upper Chehalum Valley.	Kittitas.	5,300																			
Vancouver.	Clarke.	100	35	54.6	+ 1.4	79	8	30	26	33	3.42	+ 0.75	1.46	0.0	9	5	12	14	sw.	A. A. Quarnberg.	
Vashon Island.	King.	40	21	51.6	+ 0.9	64	11	34	26†	22	6.17	+ 3.32	1.07	0.0	20	7	2	22	s.	Miss Gertrude McClintock.	
Wahluke.	Grant.	410	6	56.2		85	8	27	28	34	0.51		0.36	0.0	3	17	8	6		F. C. Koppen.	
Wallace.	Okanagon.	4,000	1																G. A. Wallace.		
Walla Walla.	Walla Walla.	1,000	26	50.0	+ 2.3	80	8	27	27	29	1.39	- 0.08	0.58	0.0	7	13	9	9		U. S. Weather Bureau.	
Waterville.	Douglas.	2,624	20	48.0	+ 2.1	80	8	12	27	41	0.37	- 0.34	0.14	0.0	4	16	12	3	w.	O. R. Hopewell.	
Wenatchee (near).	Chelan.	1,169	11	50.9	+ 1.0	72	8	27	27	27	0.48	- 0.33	0.32	0.0	3	9	14	8	w.	Geo. A. Pitcher.	
West Branch.	Stevens.	2,600																		U. S. Forest Service.	
Wilbur.	Lincoln.	2,203	11	48.0	- 0.1	74	11	18	27	35	1.12	- 0.13	0.62	0.0	3	11	5	15	s.	Rollin J. Reeves.	
Yale.	Cowlitz.	375	3	55.0																L. F. Williams.	
Zindel.	Asotin.	715	8	58.8		87	10														

TABLE 1.—Climatological data for October, 1910. District No. 12—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmeted.	Number of rainy days, .01 inch or more.	Number of partly cloudy days.	Number of cloudy days.		
Oregon—Cont'd.																			
Falls City.	Polk.	355	12	54.0	+ 3.3	76	15	29	26	5.74	+ 0.54	2.70	0.0	10	15	2	14	s.	
Forest Grove.	Washington.	220	20	54.5	+ 2.7	81	1	31	26	3.96	+ 0.43	1.15	0.0	14	4	15	12	ne.	
Gardiner.	Douglas.	72	20	56.6	+ 1.8	75	19	32	13	4.58	- 1.17	1.62	0.0	8	21	5	5	....
Glendale.	do.	1,441	5	53.5	.....	88	8	30	29†	4.6	- 1.76	0.85	0.0	3	22	6	3	nw.
Glenora.	Tillamook.	575	18	49.4	- 1.3	89	1	28	28	15.78	+ 6.24	2.90	0.0	17	10	6	15	sw.	
Gold Beach.	Curry.	40	3	53.2	.....	75	26	35	23	3.39	+ 3.13	1.39	0.0	6	18	6	7	nw.
Granite.	Grant.	4,650	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grants Pass.	Josephine.	956	21	55.8	+ 1.9	86	7	28	27	4.7	- 0.57	0.88	0.0	5	20	3	8	sw.	
Grass Valley.	Sherman.	2,381	8	49.6	+ 1.4	80	9†	20	24	41	- 0.49	0.20	0.0	1	16	13	2	sw.	
Grindstone.	Crook.	5,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Headworks.	Clackamas.	719	4	54.6	.....	70	14	37	13	6.28	+ 0.10	1.50	0.0	11	9	3	19	ne.
Hepner.	Morrow.	1,950	21	52.3	+ 1.0	82	8	20†	27	45 ^b	- 0.42	- 0.68	0.15	0.0	5	17	6	nw.	
Hermiston.	Umatilla.	450	3	54.6	.....	84	8	17	17	4.2	- 0.25	0.13	0.0	3	19	9	4	....
Hood River.	Hood River.	300	19	50.6	- 1.1	72	11	25	28	3.7	- 2.05	- 0.59	1.45	0.0	4	20	5	w.	
Huntington.	Baker.	2,165	9	55.7	80	1†	32	22†	36	- 0.01	- 0.45	0.01	0.0	1	20	1	6	se.
Jacksonville.	Jackson.	1,040	21	56.0	+ 2.5	80	8	35	27	41	- 1.59	- 0.18	0.90	0.0	4	24	1	6
Joseph.	Wallowa.	4,400	21	46.2	+ 2.0	75	8	20	27	3.6	- 2.04	- 0.64	0.50	0.0	9	13	8	10	s.
Klamath Agency.	Klamath.	4,169	2	45.2	76	8	19	31	53	- 1.17	- 1.10	0.0	0	2	22	3	6	w.
Klamath Falls.	do.	4,250	15	49.3	+ 0.1	81	8	25	2	4.4	- 1.62	- 0.56	1.25	0.0	5	24	3	4	nw.
Le Grande.	Union.	2,784	24	52.4	+ 2.6	83	9	21	27	4.05	- 1.08	- 0.57	0.32	0.0	5	18	2	11	w.
Lakeview.	Lake.	4,800	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
McKenzie Bridge.	Lane.	2,150	1	51.6	.....	77	7†	26	28	46	- 5.79	- 2.12	0.0	10	14	1	16	sw.
McMinnville.	Yamhill.	12	6	54.7	+ 2.0	75	15	29	26	3.76	+ 0.37	1.88	0.0	9	9	9	14	sw.	
Madras.	Crook.	1,400	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Marshfield.	Coos.	4,070	4	54.6	.....	79	15†	34	31	4.42	.....	1.65	0.0	13	.....	.....	.....	.....
Merrill.	Klamath.	180	23	48.5	.....	80	7	21	2	50	- 0.91	0.91	0.0	1	24	4	3	w.
Mikskalo.	Gilliam.	1,600	4	52.0	.....	78	9	22	27†	40	T.	T.	0.0	0	25	2	4	....
Miramonte Farm.	Clackamas.	195	21	55.0	+ 2.4	74	8	32	26†	32	3.53	+ 0.38	1.45	0.0	12	7	11	13	sw.
Monroe.	Benton.	350	13	54.4	+ 1.0	76	7	31	26	27	0.03	- 0.25	0.63	0.0	10	13	9	9	sw.
Mount Angel.	Marion.	485	24	56.0	+ 2.8	74	8	31	3	4.85	+ 1.18	2.25	0.0	7	17	6	8	s.	
Mountain Park.	do.	1,440	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Musick.	Douglas.	5,000	48.5	70	28	30	2†	27	7.11	2.51	3.0	10	19	3	9	sw.
Newport.	Linton.	69	22	54.6	+ 0.4	78	19	40	13†	34	5.31	+ 0.57	2.07	0.0	13	11	5	15	sw.
Palelay.	Lake.	4,500	6	50.8	.....	78	7	30	27	33	0.29	0.25	0.0	2	23	5	3	sw.
Pendleton.	Umatilla.	1,070	20	52.2	+ 0.7	86	8	16	28	50	0.91	- 0.28	0.36	0.0	4	18	11	2	sw.
Pilot Rock.	Pilot Rock.	1,817	1	54.5	.....	81	8	24	27†	40	0.53	0.24	0.0	6	22	7	2	nw.
Pompeii.	Clackamas.	3,879	15	47.2	+ 0.8	72	8	28	26	8.59	+ 2.61	2.96	T.	10	9	12	10	sw.	
Portland.	Multnomah.	57	38	56.0	+ 2.7	75	8	40	26	24	3.41	- 0.11	1.07	0.0	13	3	11	17	nw.
"P" Ranch.	Harney.	4,300	.....	.....	.....	79	8	32	13	3.0	.....	1.00	0.0	4	14	9	8	sw.
Princetown.	Crook.	2,864	13	49.4	- 0.5	85	8	15†	27	50†	0.95	+ 0.34	0.70	0.0	4	22	3	6
Prospect.	Jackson.	2,750	4	52.5	.....	82	7†	27	23	52	2.99	1.30	1.1	7	15	11	5	w.
Ramsey.	Wasco.	1,350	1	50.4	.....	73	8	23	28	48	0.80	0.50	0.0	4	13	14	3	w.
Range.	Grant.	3,500	1	45.3	.....	80	7†	14	1	58	- 2.12	0.55	0.0	4	17	7	7	....
Richland.	Baker.	2,350	8	50.4	.....	83	9	18	27	47	1.04	0.75	0.0	4	18	8	5	w.
Riverside.	Malheur.	3,000	11	53.9	+ 6.7	93	9†	12	27	66	0.48	- 0.16	0.20	0.0	4	18	'9	2	w.
Roseburg.	Douglas.	623	33	54.0	+ 0.1	79	8	35	27	34	2.71	+ 0.02	1.44	0.0	10	7	18	6	nw.
Salem.	Marion.	120	20	50.5	+ 2.9	72	7	35	26†	25	1.80	+ 1.28	0.89	0.0	3	8	3	20	sw.
Siskiyou.	Jackson.	4,115	1	53.4	.....	79	8	32	13	3.0	1.50	1.00	0.0	4	14	9	8	sw.
Sparta.	Baker.	4,150	17	.....	.....	75	8	30	26†	36	2.75	1.33	0.0	9	5	21	5	....
Stafford.	Clackamas.	400	13	55.6	+ 1.8	75	8†	33	26	4.51	+ 0.80	1.89	0.0	10	.....	.....	.....	.....
The Dalles.	Wasco.	112	35	55.6	+ 3.2	78	8	26	27†	30	1.01	- 0.23	0.38	0.0	7	15	6	10	w.
Toledo.	Linton.	75	20	59.9	+ 5.4	78	10	45	4†	29	5.85	+ 0.55	1.60	0.0	11	15	14	2	sw.
Umatilla.	Umatilla.	340	14	56.0	+ 1.7	82	8	22	27†	39	0.25	- 0.46	0.16	0.0	2	28	0	3	w.
Vale.	Malheur.	2,242	18	54.1	+ 6.0	88	9	15	28†	54	0.74	+ 0.14	0.25	0.0	6	24	6	1	nw.
Van.	Harney.	3,506	4	.....	.....	75	8	30	26†	36	2.75	1.33	0.0	9	5	21	5	....
Wallace Orchard.	Polk.	170	1	55.0	.....	75	8	30	26†	36	2.75	1.33	0.0	9	5	21	5	....
Wallowa.	Wallowa.	2,935	7	49.0	.....	84	8	17	27	50	1.87	0.89	0.0	6	17	8	6	nw.
Wasco.	Wasco.	1,263	2	51.6	.....	72	11	29	28	27	0.86	0.41	0.0	6	17	8	6	w.
Warm Springs.	Crook.	1,200	8	51.7	.....	86	8	19	28	48	0.62	0.52	0.0	2	20	5	6	nw.
Weston.	Umatilla.	1,800	20	54.5	+ 4.6	80	8	20	25	45	1.42	- 0.54	0.70	0.0	7	10	9	12	sw.
Williams.	Josephine.	1,368	17	.....	.....	80	8	16†	28	52	1.38	0.73	0.0	6	22	7	2	s.
Yonna.	Klamath.	3	45.8	.....	.....	80	8	16†	28	52	1.38	0.73	0.0	6	22	7	2	s.

* b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.

** Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

† Also on other dates.

‡ Separate dates of falls not recorded.

§ Data are from standard instruments not supplied by the U. S. Weather Bureau.

|| Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

Estimate by observer.

¶ Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for October, 1910. District No. 12, Columbia Valley.*

TABLE 2.—*Daily precipitation for October, 1910. District No. 12—Continued.*

TABLE 2.—*Daily precipitation for October, 1910. District No. 18—Continued.*

TABLE 2.—*Daily precipitation for October, 1910. District No. 12—Continued.*

TABLE 2.—*Daily precipitation for October, 1910. District No. 12—Continued.*

TABLE 3.—*Maximum and minimum temperatures at selected stations, October, 1910.* District No. 12, Columbia Valley.

Washington.

Date.	Aberdeen.		Blaine.		Colville.		Kosmos.		Lakeside.		North Head.		North Yakima.		Odessa.		Port Crescent.		Seattle.		Sixpence.		Spokane.		Tacoma.		Tatooch Island.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1...	64	55	60	50	58	43	59	45	66	47	57	48	67	55	66	50	58	46	55	50	73	54	59	44	60	48	54	50
2...	62	58	51	47	63	38	55	43	53	44	54	50	58	38	58	36	49	42	54	48	61	42	53	41	57	47	52	50
3...	61	49	58	46	61	32	54	40	60	43	55	50	63	46	59	45	56	44	56	49	63	46	55	46	49	54	48	
4...	55	48	55	45	58	37	55	45	57	40	54	50	59	36	60	41	53	43	55	51	58	47	55	43	56	40	54	50
5...	59	50	62	50	63	38	63	46	67	43	56	50	71	38	62	40	54	44	62	53	71	46	59	48	64	55	57	50
6...	60	49	60	52	65	35	62	49	73	52	55	53	74	41	62	42	64	48	62	51	77	48	67	53	64	51	56	52
7...	59	50	61	42	65	40	61	47	64	49	60	51	72	50	70	50	55	44	60	51	74	56	63	54	60	51	59	52
8...	62	49	58	51	78	48	62	49	69	50	59	52	80	46	73	48	56	47	64	50	83	49	77	52	60	50	58	48
9...	61	47	54	47	67	46	69	52	67	56	52	48	74	57	82	48	51	40	51	49	76	50	72	49	53	49	54	46
10...	57	46	56	40	75	40	63	45	67	48	52	50	69	48	79	40	56	40	51	46	66	49	66	41	61	47	54	45
11...	58	40	55	38	74	45	60	48	65	49	51	47	76	47	76	38	57	36	56	45	76	45	72	50	58	46	53	44
12...	53	42	59	34	67	45	57	42	63	48	52	49	70	46	71	50	55	38	54	46	66	50	47	55	43	53	44	
13...	52	40	56	43	64	43	58	42	63	41	52	48	66	35	66	32	54	46	57	48	68	40	58	41	57	43	53	50
14...	56	46	54	49	63	44	70	40	62	49	55	49	69	46	66	44	55	47	63	50	70	41	64	43	66	49	55	51
15...	70	51	66	53	72	41	75	41	66	47	59	49	72	38	78	37	61	48	61	51	71	50	69	42	64	50	60	50
16...	58	50	62	51	71	32	65	40	70	43	53	51	71	35	74	35	58	45	58	51	74	40	66	36	58	48	55	50
17...	60	57	62	54	64	44	53	49	65	52	54	52	68	54	66	33	57	49	59	55	68	51	60	46	60	55	55	52
18...	62	50	60	53	63	37	70	37	66	41	57	52	70	36	68	33	56	42	60	52	67	46	53	40	49	57	51	
19...	60	48	64	40	64	30	72	35	63	42	68	54	66	40	63	38	58	44	66	46	66	33	66	47	56	48		
20...	58	44	56	43	64	28	68	36	64	40	54	50	66	38	69	34	54	44	59	47	62	41	62	36	50	46	52	47
21...	57	43	53	35	65	27	67	35	61	38	56	49	66	34	67	32	50	43	54	44	68	47	62	36	56	45	53	46
22...	58	44	58	42	58	33	58	45	64	45	57	49	64	41	64	33	55	36	59	48	66	43	56	39	61	47	56	49
23...	59	42	51	41	52	27	56	41	61	42	53	47	58	33	54	30	50	37	54	47	63	39	50	38	55	43	53	48
24...	58	50	57	45	60	40	56	46	66	42	54	50	73	39	66	40	60	46	60	49	73	53	61	47	63	50	54	48
25...	54	38	50	44	56	32	56	42	66	44	52	45	64	50	57	32	50	31	52	47	68	55	56	42	53	43	53	43
26...	55	30	55	20	50	22	58	28	53	30	60	41	56	31	49	30	48	33	52	36	57	32	48	29	50	31	52	43
27...	63	35	56	30	52	15	66	44	52	27	65	51	56	25	54	19	51	35	61	42	54	26	51	23	60	33	55	46
28...	65	33	61	30	56	11	72	37	51	29	61	49	55	23	57	25	51	29	66	38	55	27	55	28	64	37	55	45
29...	57	39	49	38	51	23	59	33	50	34	52	49	70	27	59	30	49	38	53	46	65	32	61	31	58	43	51	45
30...	58	45	50	42	53	28	55	40	56	38	52	50	63	36	62	34	50	42	54	49	68	44	55	36	55	49	52	44
31...	59	42	45	45	58	31	55	44	58	52	50	61	44	65	40	48	44	55	49	64	43	58	41	55	49	51	48	
Mns.	59.0	45.5	57.0	43.5	62.2	34.6	61.5	42.3	62.4	43.1	55.6	49.5	66.8	40.4	65.1	37.3	54.1	41.6	57.7	47.8	67.5	44.8	60.2	41.3	58.7	46.5	54.5	47.9

TABLE 3.—*Maximum and minimum temperatures at selected stations for October, 1910. District No. 12—Continued.*

Date.	Walla Walla, Wash.		Oregon.																					
			Ashland.		Baker City.		Eugene.		Gold Beach.		Hermiston.		Marshfield.		Portland.		Prineville.		Roseburg.		The Dalles.		Vale.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1.	65	50	72	40			78	54	65	52	80	45	65	53	64	51	73		65	42	73	54	71	36
2.	63	46	60	39			65	43	61	33	69	51	62	33	56	50	72		65	37	62	45	67	32
3.	63	50	58	40			61	50	59	54	63	48	60	52	62	54	59		62	49	63	50	59	50
4.	60	52	59	41			58	50	63	50	73	43	62	49	58	52	55		61	45	66	46	60	43
5.	72	54	72	47			58	52	70	53	63	43	72	53	70	55	70		74	53	70	52	55	31
6.	76	53	77	47			72	54	69	49	78	40	70	58	70	60	80		73	54	73	48	61	35
7.	73	58	78	46			73	54	70	45	76	51	74	47	71	56	80	36	79	52	73	54	77	34
8.	80	54	59	47			79	52	63	47	84	42	72	47	75	54	85	35	79	49	78	50	81	35
9.	77	54	65	46			80	53	63	49	79	46	59	55	55	52	75	33	69	48	71	53	88	34
10.	68	50	65	50			72	50	56	50	59	39	54	50	59	50	66	35	55	51	66	49	83	34
11.	68	48	60	46			56	49	54	49	71	40	52	48	59	50	66	34	53	50	70	45	84	35
12.	67	51	63	36			51	49	52	47	71	45	54	48	61	49	60	37	57	47	64	52	76	32
13.	63	49	57	43			61	45	59	36	67	39	62	39	59	46	60	27	60	42	63	41	65	35
14.	69	46	57	37			63	44	68	40	68	42	63	39	66	50	64	29	64	41	68	48	71	32
15.	71	43	64	41			68	45	66	43	74	31	79	39	74	50	73	27	66	44	70	40	67	35
16.	70	44	67	41			68	42	60	43	74	31	64	49	60	47	70	29	63	43	67	38	78	38
17.	66	52	63	51			64	50	60	53	71	50	61	56	65	56	69	47	68	47	70	54	65	37
18.	66	49	63	41			65	48	62	43	71	52	67	49	65	53	64	36	67	42	69	52	66	34
19.	61	40	72	46			65	40	71	45	65	32	79	43	69	50	70	27	70	43	67	40	67	31
20.	67	41	69	45			70	42	60	41	68	32	59	44	62	47	73	29	68	43	68	40	66	23
21.	69	42	70	43			66	41	53	43	71	53	53	45	52	44	74	27	65	43	68	38	64	22
22.	63	46	58	44			58	36	60	42	68	56	60	42	57	45	64	30	62	41	64	49	65	24
23.	61	44	59	36			64	42	57	35	62	34	63	35	56	44	68	24	63	33	63	41	60	25
24.	71	53	68	39			69	44	64	42	75	50	67	38	69	52	75	29	68	37	72	49	65	23
25.	63	44	68	41			74	49	68	48	72	49	61	49	61	43	70	33	61	44	65	55	69	34
26.	54	35	68	50			60	32	75	39	62	25	68	37	59	40	57	18	52	35	53	32	60	32
27.	52	27	74	54			63	32	66	39	54	17	78	44	60	48	60	15	60	35	55	26	62	16
28.	54	32	70	45			65	31	53	39	51	17	57	35	66	50	74	15	70	36	55	26	58	15
29.	65	36	62	44			65	36	55	45	67	24	52	46	55	43	72	23	65	38	59	30	61	15
30.	62	40	78	44			64	37	59	39	67	32	63	45	60	49	70	36	58	42	63	46	70	22
31.	60	48	63	43			64	38	57	37	67	48	61	34	60	49	62	37	52	40	66	48	71	21
Means.....	65.7	46.2	66.7	43.6			65.8	44.6	62.1	41.4	69.1	40.2	63.8	45.4	62.4	49.6	68.7	30.0	64.3	43.6	66.4	44.9	68.1	30.6